

ASARCO

PLAINTIFF'S EXHIBIT

ASA-1760

El Paso Plant

EXHIBIT I

October 7, 1983

ENVIRONMENTAL IMPROVEMENT PROJECTS

1970 - 1983

PLANT APPROPRIATION NUMBERS

	1970	Cost
	Hoods on Dross Reverb Matte Launder	\$ 5,000 Est.
	Hoods for Cottrell Dust Handling	5,000 "
536	Cottrell Expansion	1,500,000
534	Model 92 Tennant Sweeper	8,000
540	No. 2 Anode Afterburner	17,000
541	Zinc & Holding Furnace Ventilation	55,000
547	Sinter Plant Scrubbers	115,000
549	Calcine Loading Ventilation	10,000
	Total for Year	\$ 1,715,000
	Running Sub-total	\$ 1,715,000
	1971	
554	Weather Stations	\$ 5,000
566	R&R Flue Dust Conveyor System	58,000
553	R&R Draft Improvement	23,000
552	Calcine Loading Ventilation	8,000
551	No. 1 Anode Afterburner	16,000
560	Rectifiers for Converter Cottrell	11,000
	Total for Year	\$ 121,000
	Running Sub-total	\$ 1,836,000
	1972	
	Ventilation of Receiving Dross Kettle	\$ 2,000 Est.
	Ventilation of No. 27 Conveyor	2,000 "
567	Blast Furnace Baghouse Stacks	72,000
574	Ventilating Top Floor of D&L Building	13,000
573	Additional Rectifiers for R&R Cottrell	25,000
572	2000-Gallon Water Truck	6,000
571	Elgin Street Sweeper	11,000
570	Cadmium Unloading System — BECAME PART OF 567	155,000
567	Blast Furnace Baghouse Dust Enclosure	12,000
567	D&L Baghouse Dust Enclosure	14,000
567	Baghouse Dust Trestle Enclosure	4,000
550	Addition of #1 Acid Plant (for Copper Process Gases)	14,291,722
	Total for Year	\$ 14,607,722
	Running Sub-total	\$ 16,443,722

DMART 320

ENVIRONMENTAL IMPROVEMENT PROJECTS (cont'd)

<u>1973</u>		<u>Cost</u>	
579	Deleading Baghouse Extension	\$ 316,000	
578	Zinc Track Hopper & Cadmium Unloading Ventilation	316,00	
577	Zinc Kiln Ventilation	123,000	
567	Matte Tap Ventilation	204,000	
	Relocate Calcine Vent Pipe	2,000 Est.	
	Dross Reverb Launder Ventilation	10,000	
	Total for Year	\$ 971,000	
	Running Sub-total	\$ 17,414,722	
<u>1974</u>			
	Reverb Crossover Flues	\$ 15,000 Est.	
587	Converter Secondary Hood	67,000	
604	Local Emission Controls, which include:	480,000	
	1. Blast Furnace Elevator Ventilation		
	2. Cadmium Plant Ventilation		
	3. Dross Plant Ventilation		
	4. Sinter Plant Ventilation		
	5. Dross & Cadmium Plant Crane Ventilation		
605	Pneumatic Conveying System for Silica Dust	110,000	
	Total for Year	\$ 672,000	
	Running Sub-total	\$ 18,086,722	
<u>1975</u>			
	Rebuilt Cottrell Floor	\$ 25,000 Est.	
610	Converter Building Fume Control (Building Enclosure)	6,605,000	(6,635,000)
611	Mobile Sweepers	10,000	
601	Cottrell Improvements	38,000	
	Total for Year	\$ 6,678,000	
	Running Sub-total	\$ 24,764,722	
<u>1976</u>			
623	Major Renovation of Lead Smelter Including new facilities for Unloading, Sintering, Acid Plant (Cont. through 1982)	\$ 83,486,881	5/84 - 83,785,000
1984	Total for Year	\$ 83,486,881	
	Running Sub-total	\$ 108,251,603	
<u>1978</u>			
639	Reverb Cottrell Rehabilitation	\$ 664,000	
610	Ventilation of Reverb Furnace Return Launder	10,000	
610	Enclosure of Calcine Charge Area	21,000	
610	Hoods for Zinc Matte Tapping	23,000	
	Total for Year	\$ 718,000	
	Running Sub-total	\$ 108,969,603	

ENVIRONMENTAL IMPROVEMENT PROJECTS (cont'd)

	<u>1979</u>	<u>Cost</u>
644	Compliance Facilities for OSHA Arsenic Standard *	\$ 1,830,000 — 2,175,165
647	Cadmium Dust Loading	37,000
650	Street Sweeper	38,000
648	Engineering Study - Converter Secondary Hoods	18,000
	Total for Year	\$ 1,923,000
	Running Sub-total	\$ 110,892,603

* These projects were primarily related to OSHA Standards. The projects have been included on this list because the projects had some effect on reducing fugitive emissions.

	<u>1980</u>	<u>Cost</u>
657	Environmental Computer Up-Grade	\$ 16,000
661	Matte Ladle Hoods	97,000
665	Hi-Pressure Wash System	10,000
	Roaster Siding Repairs	157,000
	Mill Siding Repairs	160,000
	Lead Stack Transmissometer	23,000 Est.
	Modify Blast Furnace Settler Hood	3,000 "
	Total for Year	\$ 466,000
	Running Sub-total	111,358,603

	<u>1981</u>	
	Movable Kettle Hood	\$ 6,000
	Lead Kettle Hood & Duct	5,000
	Extension of E. Helena Dust Unloading Building	80,000
	R&R Flue Bulk Head	133,000
	R&R Flue Door	110,000
669	Cottrell Transformers	30,000
670	Blast Furnace Ventilation	730,000
673	Converter Gas Crossover Flue	170,200
678	Environmental Computer Upgrade	110,000 — (175,350)
	Total for Year	\$ 1,374,200
	Running Sub-total	\$ 112,732,803

	<u>1982</u>	
675	Roaster & Converter Transmissometers	\$ 44,000
680	Tymco Sweeper	78,000
685	Water Blaster	34,000
	D&L Ventilation Baghouse Modification	12,000
	Total for Year	\$ 168,000
	Running Sub-total	\$ 112,900,803

ENVIRONMENTAL IMPROVEMENT PROJECTS (cont'd)

<u>1983</u>	<u>Cost</u>
686 Computerized Process Gas Handling System	\$ 155,000
676 Gas Reformer for Anode Furnaces	600,000
687 Converter Cottrell Modification	1,902,000
623 Zig/Zag Blender Building	200,000 Est.
Sprinkler System	100,000 "
Ventilation System for "Down" Roasters	50,000 "
Acid Plant Projects (to reduce screening, lower tail gas)	
List: Catalyst	400,000
Mist precipitator Inlet Duct Modifications	150,000 Est.
Preheater Retubing	50,000 "
#5 Heat Exchanger	30,000 "
Blast Furnace Modifications for Slag Hauler	50,000 "
Blast Furnace SO ₂ Monitor	25,000
Dross Plant Ventilation Systems	250,000 Est.
 Total for Year	 \$ 3,962,000
Running Sub-total	\$ 116,862,803

NOTE: TOTAL ANTIMONY PLANT COSTS TO DEC'83 - \$9,334,200
(APPROPRIATED)